

# ATTACHMENT B TO RESOLUTION NO.

## ANALYTES TO BE MONITORED FOR INJECTION WATER QUALITY CHARACTERIZATION REPORT FOR CITY OF TRACY DEMONSTRATION PHASE AQUIFER STORAGE AND RECOVERY PROJECT SAN JOAQUIN COUNTY

The following is a list of analytes to be monitored in conjunction with the *Injection Water Quality Characterization Report*. At a minimum, two representative samples of the treated water proposed for aquifer injection and two groundwater samples collected from the ASR Demonstration Well shall be collected for this report. Water quality characterization monitoring shall include at least the following:

<u>Constituent</u>	<u>Units</u>	<u>Type of Sample</u>	<u>Minimum Number of Samples</u>
pH	std.	Grab	Two from each medium
Dissolved Organic Carbon	mg/l	Grab	Two from each medium
Total Kjeldahl Nitrogen	mg/L	Grab	Two from each medium
Total Dissolved Solids	mg/L	Grab	Two from each medium
Standard Minerals <sup>1</sup>	mg/l	Grab	Two from each medium
Chlorine Residual	mg/L	Grab	Two from each medium
Ammonia Nitrogen	mg/L	Grab	Two from each medium
Boron	mg/L	Grab	Two from each medium
Fluoride	mg/L	Grab	Two from each medium
Iron	mg/L	Grab	Two from each medium
Manganese	mg/L	Grab	Two from each medium
Molybdenum	mg/L	Grab	Two from each medium
Anion Scan <sup>2</sup> (EPA 300)	mg/l	Grab	Two from each medium
Trace Metals <sup>3</sup> (EPA 6010B)	mg/l	Grab	Two from each medium
Antimony (EPA 7062)	mg/l	Grab	Two from each medium
Arsenic (EPA 7062)	mg/l	Grab	Two from each medium
Cadmium (EPA 7131A)	mg/l	Grab	Two from each medium
Lead (EPA 7421)	mg/l	Grab	Two from each medium
Mercury (EPA 7471A)	mg/l	Grab	Two from each medium
Nickel (EPA 7521)	mg/l	Grab	Two from each medium
Selenium (EPA 7742)	mg/l	Grab	Two from each medium
Thallium (EPA 7841)	mg/l	Grab	Two from each medium

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CITY OF TRACY  
DEMONSTRATION PHASE  
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SAN JOAQUIN COUNTY

<u>Constituent</u>	<u>Units</u>	<u>Type of Sample</u>	<u>Minimum Number of Samples</u>
Trihalomethanes <sup>4</sup> (EPA 8260B)	mg/L	Grab	Two from each medium
Haloacetic Acids <sup>4</sup> (EPA 8260B)	mg/L	Grab	Two from each medium
Volatile organics <sup>5</sup> (EPA 8260B)	mg/L	Grab	Two from each medium
Semi-volatile organics <sup>5</sup> (EPA 8270C)	mg/L	Grab	Two from each medium
Organochlorine Pesticides <sup>5</sup> (EPA 8141A)	mg/l	Grab	Two from each medium
N-Nitrosodimethylamine <sup>6</sup>	mg/L	Grab	Two from each medium
Total Coliform Organisms <sup>7</sup>	MPN/ 100 ml	Grab	Two from each medium

<sup>1</sup> Standard Minerals shall include the following: calcium, magnesium, potassium, sodium, total alkalinity (including alkalinity series), and hardness.

<sup>2</sup> Anion scan shall include the following: bromide, chloride, nitrate, nitrite, phosphate, sulfate, sulfite.

<sup>3</sup> Trace metal scan shall include the following: barium, beryllium, chromium, cobalt, copper, silver, tin, vanadium, zinc.

<sup>4</sup> Individual trihalomethanes and haloacetic acid concentrations shall be monitored and reported.

<sup>5</sup> All analytical peaks shall be identified and their concentrations reported.

<sup>6</sup> Using California DHS approved sampling and analysis methods.

<sup>7</sup> Using a minimum of 15 tubes or three dilutions